

Amendments to the Claims

This listing of claims will replace all prior listings of claims in the application.

Listing of Claims

1. (Cancelled).
2. (Previously presented) The metallic heat transfer tube according to Claim 24, wherein the fins and the primary grooves extend helically.
3. (Previously presented) The metallic heat transfer tube according to Claim 24, wherein the fins and the primary grooves extend annularly.
4. (Previously presented) The metallic heat transfer tube according to Claim 24, wherein the fins and the primary grooves extend in an axial direction of the metallic heat transfer tube.
5. (Withdrawn) The metallic heat transfer tube according to Claim 2, 3 or 4, wherein the re-entrant secondary grooves extend with an essentially uniform cross section in direction of the primary grooves.
6. (Previously presented) The metallic heat transfer tube according to Claim 2, 3 or 4, wherein the cross section of the re-entrant secondary grooves is varied at regular intervals.
7. (Cancelled).
8. (Cancelled).

9. (Previously presented) The metallic heat transfer tube according to one of the Claims 24, 2, 3, or 4, wherein the re-entrant secondary grooves have a height that is at a maximum up to 20% of the fin height H.

10. (Previously presented) The metallic heat transfer tube according to one of the Claims 24, 2, 3 or 4, wherein the fins have a uniform height H.

11. (Previously presented) The metallic heat transfer tube according to one of the Claims 24, 2, 3 or 4, wherein tips of the fin are notched.

12. (Original) The metallic heat transfer tube according to Claim 10, wherein the fins have an essentially T-shaped cross section.

13. (Previously presented) The metallic heat transfer tube according to one of the Claims 24, 2, 3 or 4, wherein the tube has at least one of plain ends and plain center lands.

14. (Previously presented) The metallic heat transfer tube according to one of the Claims 24, 2, 3 or 4, wherein the tube is designed as a seamless tube.

15. (Previously presented) The metallic heat transfer tube according to one of the Claims 24, 2, 3 or 4, wherein the tube is designed as a tube welded with a longitudinal seam.

CLAIMS 16-23 - CANCELLED.

24. (Currently Amended) A metallic heat transfer tube, comprising:

integral completely formed fins formed on an outside of a tube wall, a primary groove being defined between mutually adjacent completely formed fins, a root of the completely

formed fins projecting generally radially outwardly from the tube wall at a base of the primary groove, the tip of each of the completely formed fins having a T-shaped cross section so that the primary groove will be radially closed off by mutually adjacent T-shaped tips, the region between the mutually adjacent T-shaped tips defining radially open pores opening into the primary groove;

a re-entrant groove having opposing sidewalls and a bottom wall formed between the roots of the mutually adjacent completely formed fins and in the base of the primary groove, the re-entrant groove extending coextensively with the primary groove, the re-entrant groove being formed by a pair of projections extending continuously with the primary groove and projecting toward one another from a respective root of the mutually adjacent fins and terminating a first measured distance from one another so as to define a gap therebetween and so that a second measured distance at a widest spacing between the sidewalls of the re-entrant groove measured along a theoretical line spaced from and parallel to a further theoretical line containing the first measured distance is greater than the first measured distance, a relationship between the first and second measured distances being continuously maintained throughout the length of the primary groove.

25. (New) The metallic heat transfer tube according to one of the Claims 2 and 3, wherein each of the T-shaped tips have a flat unobstructed radially outwardly facing surface area between circumferentially extending edges thereof.